## INTERNATIONAL SEARCH REPORT

Intermional Application No PCT/EP2004/050051

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01F11/00 B01F13/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system tollowed by classification symbols)} \\ \mbox{IPC 7} & \mbox{B01F} \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

FPO-Internal WPI Data, PAJ

. DOCUM	ENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.
Category *	Citation of document, with indication, where appropriate, of	the relevant passages	Neigvant to ciamin No.
Х	DE 102 13 003 A (KARLSRUHE FO 16 October 2003 (2003-10-16) paragraphs '0010!, '0014! - figures 1-7	1-22	
X	US 2002/125134 A1 (MIKKELSEN AL) 12 September 2002 (2002-0 paragraphs '0023!, '0027!, '0052!, '0067!; figures 2,4	1-9, 20-22	
X	US 2003/031090 A1 (TABELING PAL) 13 February 2003 (2003-02 paragraphs '0015!, '0016!, '0035!, '0038!; figures 1,3	-13)	1-9, 20-22
- <u> </u>			
Y Fur	ther documents are listed in the continuation of box C.	X Patent family members are list	ed in annex.
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"A" docum	nategories of cited documents:  nent defining the general state of the art-which is not idered to be of particular relevance	*T* later document published after the or priority date and not in conflict cited to understand the principle of the interest	international filing date with the application but r theory underlying the
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## INTERNATIONAL SEARCH REPORT

Inter Print Application No PCT/EP2004/050051

	PC1/EP2004/050051
	Relevant to ctairn No.
Citation of document, with indication, where appropriate, of the relevant passages	невуаль ю скит ко.
EP 1 382 962 A (UT BATTELLE LLC) 21 January 2004 (2004-01-21) paragraphs '0012!, '0014!, '0021!, '0034!, '0114!, '0137!; figures 1-4	1-4, 20-22
US 6 413 400 B1 (SOANE DAVID S ET AL)	1–19
2 July 2002 (2002-07-02) column 9, line 10 - column 10, line 29; figure 2	20-22
	21 January 2004 (2004-01-21) paragraphs '0012!, '0014!, '0021!, '0034!, '0114!, '0137!; figures 1-4 US 6 413 400 B1 (SOANE DAVID S ET AL) 2 July 2002 (2002-07-02) column 9, line 10 - column 10, line 29;

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

andormation on patent family members

PCT/EP2004/050051

Patent document dited in search report		Publication date	-	Patent family member(s)	Publication date
DE 10213003	A	16-10-2003	DE	10213003 A1	16-10-2003
US 2002125134	A1	12-09-2002	NONE		
US 2003031090	A1	13-02-2003	NONE		
EP 1382962	A	21-01-2004	US EP AU ACO DE ESPOSSISSISSISSISSISSISSISSISSISSISSISSISSI	6001229 A 1382962 A1 1162455 A1 227023 T 701348 B2 3150895 A 2196429 A1 1168720 A ,B 69528705 D1 69528705 T2 775306 T3 0775306 A1 2185709 T3 10507516 T 9604547 A1 6010607 A 6010608 A 6033546 A 2003150733 A1 6342142 B1 2003205469 A1 2003226755 A1 2003205470 A1 2003226753 A1 2004007464 A1 2004009517 A1 2004137445 A1 6475363 B1 5858195 A 2002008030 A1	14-12-1999 21-01-2004 12-12-2001 15-11-2002 28-01-1999 04-03-1996 15-02-1996 24-12-1997 05-12-2002 03-07-2003 25-11-2002 28-05-1997 01-05-2003 21-07-1998 15-02-1996 04-01-2000 07-03-2000 14-08-2003 29-01-2002 06-11-2003 11-12-2003 11-12-2003 15-01-2004 15-01-2004 15-07-2004 05-11-2002 12-01-1999 24-01-2002
US 6413400	B1	02-07-2002	US US US US AUA CAP JP UP UP UP US AUA	6093296 A 5750015 A 5126022 A 2002056640 A1 6306272 B1 6176962 B1 5858188 A 6054034 A 637895 B2 7467591 A 2075969 A1 0521911 A1 3103031 B2 8327597 A 2601595 B2 5504628 T 9112904 A1	25-07-2000 12-05-1998 30-06-1992 16-05-2002 23-10-2001 23-01-2001 12-01-1999 25-04-2000 10-06-1993 18-09-1991 29-08-1991 13-01-1993 23-10-2000 13-12-1996 16-04-1997 15-07-1993